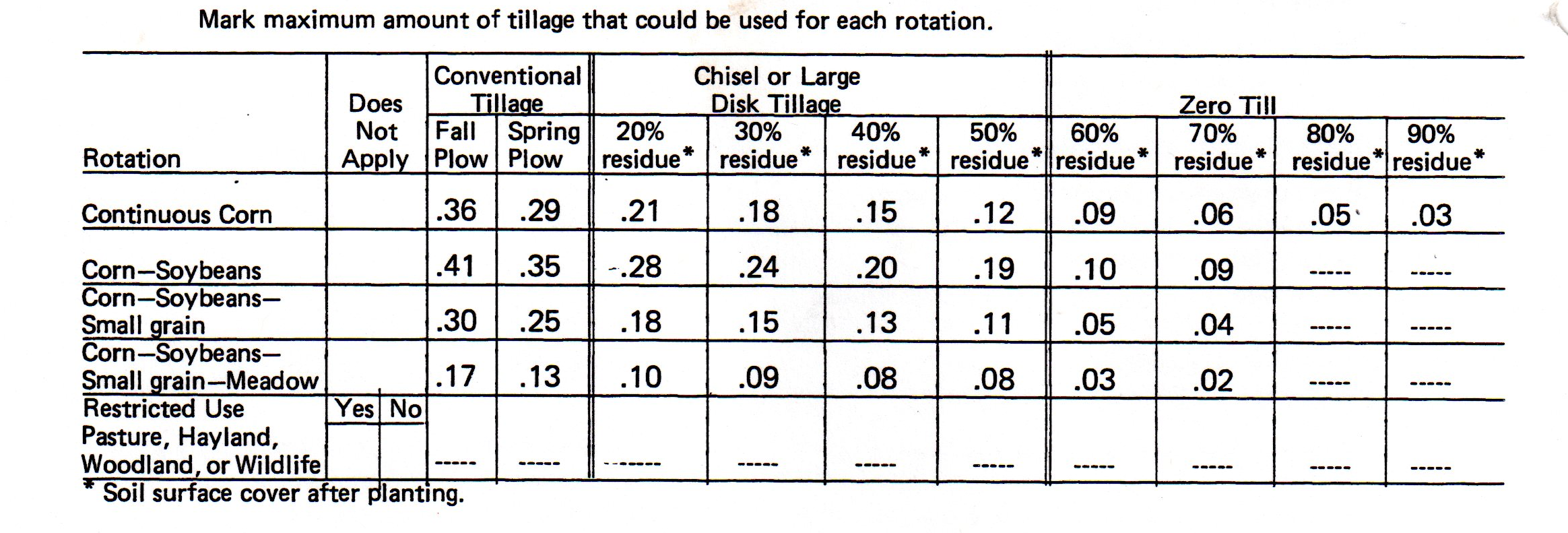
**Environmental Science First Semester Final Review**

***Natural Resources***

1. What is an environment?
2. What are natural resources?
3. For each of the following categories of natural resources, explain what they are, why they are important, and how they are dependent on each other: air and wind, fossil fuels, minerals, people, soil, sunlight, water, and wildlife.
4. What is the difference between exhaustible and inexhaustible resources? Give two examples of each.
5. Explain what interdependence of natural resources is and give an example.
6. How is a food web different from a food chain?
7. What is the difference between the following: niche, community, and habitat?
8. What is the difference between the biotic and abiotic parts of an ecosystem?
9. How is predation different from competition?
10. How are herbivores, carnivores, and omnivores different?
11. What is the difference between aquatic and terrestrial?
12. How is a biome different than an ecosystem?
13. What is homeostasis? How can animals keep this? (Be sure to know the different ways!)
14. How are the following different: adaptation, selection, succession?
15. What is the difference between consumptive and nonconsumptive resources? Give two examples of each.
16. What do we talk about when we discuss population density?
17. What is land-use planning and why is it important?
18. How are recycling and reusing different? How are they the same?
19. What do we mean by sustainability? How can we achieve this?

***Soil***

1. Why is soil an important, life supporting material?
2. What basic needs does soil provide a plant?
3. How do organisms like worms, ants, and moles affect soil?
4. What is weathering and how does it affect soil?
5. What is the difference between loess and outwash?
6. Draw a picture showing the different horizons of the soil. Label each horizon and identify what it is made of.
7. What is soil degradation?
8. What is the difference between topsoil, subsoil, and bedrock?
9. What is organic matter and why is it important?
10. List four agricultural uses and four nonagricultural uses of soil.
11. What resources does soil provide?
12. Draw a cross-section of Earth showing the different layers and how soil relates to this.
13. What are photosynthesis and respiration? How are the related to our study of soil?
14. What are the six types of soil parent material? Which one is the most desirable and why?
15. What are the four components of soil and how much of the soil do they make up?
16. Describe what the Dust Bowl was and its affects on our country. Be sure to include any changes in economy, legislation, and practices that resulted from this.
17. What is desertification and how does it affect us?
18. What are salinization and waterlogging? How are they a problem for soil quality?
19. Use the following information to answer questions about the soil that is present: Eye height = 9.2; Rod height = 7.0; Length of slope = 100 ft; top soil color is very dark; subsoil color is brownish with no gray mottling in it; no gray soil between the A and B horizon; Z = 0.09
    1. What is the slope of your land?
    2. What is the percent organic matter that is present?
    3. Is there an A2 horizon that is present?
    4. What type of drainage would this soil provide?
    5. What is the C value of the soil?
    6. Accurately mark the chart below



***Air***

1. What are two divisions we classify air in and how are they different?
2. What is the ideal composition of ‘good, clean’ air?
3. What is air pollution?
4. What are two categories all air pollutants can be classified into? Explain each of these and give examples of each.
5. What are three major gas pollutants and where doe they come from?
6. What are VOC’s and where do they come from?
7. What are major contributors to smog?
8. How and why does acid rain happen?
9. What can acid rain cause?
10. Explain the basic mechanism that humans use to breathe.
11. How can air pollution hinder the basic mechanism humans use to breathe?
12. What types of disease can air pollution cause in humans?
13. How can air pollution affect humans?
14. How can air pollution affect animals?
15. How can air pollution affect plants?
16. What are some things we can do to prevent air pollution?